

Applicant: <u>Black Warrior Minerals, Inc.</u>
Mine Name: <u>Manchester East Mine</u>
Permit Number: <u>P-3922 Revision R-3</u>

PART IV ADDENDUM TO RECLAMATION PLAN

- 1) The historic premining landuse (undeveloped) and the proposed post mining landuse (undeveloped/no current use) is compatible with the surrounding landuse and of the previously approved Permit P-3922.

7 new mining acres and 2 incidental acres for Basin 043P are being added by this revision.

- 2) No prime farmland exists within the permit area.
- 3) Completeness of contouring, backfilling, and grading shall follow the same requirements as the previously approved Reclamation Schedule. All grading and contouring shall follow the approximate original contours.
- 4) Topsoil handling and revegetation will follow the originally approved Reclamation Plan in the Permit P-3922.
- 5) Husbandry practices and sampling to determine success of revegetation shall be in accordance with the originally approved Permit P-3922.
- 6) The post-mining land uses will be Basins 008A, 036, 037, 038, 042, 043, 044, and 045 permanent water impoundments, fish and wildlife habitat and access roads. The post-mining land use for the remaining area will be undeveloped land with no planned use or management.

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Attachment IV-B-1

OVERBURDEN RESTABILIZATION PLAN

All overburden shall be backfilled, compacted, and graded so that the post mining slope will approximate the pre-mining slope and in a timely manner. (See Part IV.-B.-2).

Overburden will be rough graded by dozers. Once overburden has been rough graded, farm-type tractors will be used to disc the overburden to its final contour, decrease compaction, and increase the mechanical breakage of the surface layer. Rocks 24" in diameter, or greater, that remain upon the surface, if any, will be collected and buried. At this time the following criteria will be used to evaluate the textural quality of the graded overburden:

- a) Rocks of a size greater than 10" shall not exceed 1% by weight of the substitute material.
- b) The substitute material shall not contain more than 15% by weight of materials between 10 and 3 inches in size.
- c) The substitute material shall not contain more than 15% by weight of materials between 3 and .75 inches in size.
- d) At least 30% by weight of the substitute material shall be of a size less than 2 millimeters.

The above criteria is based on a post mining landuse of undeveloped lands. Sampling frequency shall be as discussed in Attachment IV-C-2. If this criteria is not met, Black Warrior Minerals, Inc., shall redisc the overburden and resampled. If increasing the mechanical breakage will not enhance the graded overburden to a satisfactory level, additional soil will be hauled and spread on site or rocks collected and buried until the above criteria is achieved.

Stabilization of graded material will be achieved by the planting of warm or cool season perennials as outlined in Part IV-C-5 of the permit.

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C. Revegetation

- (1) Outline procedures for soil testing required to determine type and amount of soil amendments to be applied and to evaluate results of topsoil handling and replacement. (780.18, 816.25)

Once the texture criteria for final graded overburden has been met as outlined on Attachment IV-C-2, the final texture samples taken shall be sent to a qualified soil testing laboratory where the following tests shall be conducted: % sand, % silt, & % clay, textural classification, pH, total sulfur, acid-base account, fertility ratings for phosphorus, potassium, and magnesium, and amendment recommendations for post mining revegetation for limestone, nitrogen, P<sub>2</sub>O<sub>5</sub> and K<sub>2</sub>O. Results of this analysis will be used to determine the amount of soil amendments, if any, to be applied to the plant medium and will be submitted to the Regulatory Authority for review.

- (2) Are selected overburden materials to be used as a supplement or substitute for topsoil?  
(XXX) Yes ( ) No

If, yes, provide results of analysis, trials, and tests required under Section 816.22(e). (779.21)

The operator is requesting an extension of the Topsoil Variance due to the fact the proposed revision area, 9 acres, is contiguous to the previously approved topsoil variance and the same soil types exist within the revision area as was originally included in the Topsoil Variance.

- (3) Are commercial or introduced species to be used?  
( ) Yes ( X ) No

If yes, give a narrative with supporting references which show that the species meet the requirements of Section 816.112. (780.18, 816.112)

- (4) Is the area to be reclaimed for fish and wildlife habitat?  
( X ) Yes ( ) No Basins 008A, 036, 037, 038, 042, 043, 044, and 045 permanent water impoundments, fish and wildlife habitat .

If yes, list the species of plants to be used with a brief description of how they meet the criteria of Section 816.97 (d) (6). [780.18(b) (5 and 6), 816.97(d) (6)]

- (5) Complete the following schedules for each increment or sub-area of the permit area. [780.18(b) (5)]